Director SDC,
Prof. dr. Tiberiu FRENȚIU

Director CSUD,
Prof. dr. Anca-Mirela ANDREICA

Dr. Jürgen BREM **Fișa de îndeplinire a standardelor minimale stabilite de CNATDCU, pentru abilitare, Comisia Chimie**

Nr.	Titlu articol	Autori	Revista	Domeniul de chimie	Prim autor	Autor corespondent	Factor impact (an publicare)	Factor impact (recent)	An publicare	Volum	Issue	Pagina start	Pagina final	DOI	Numar citari (09.09.2025)
1	Imitation of β-lactam binding enables broad-spectrum metallo-β-lactamase inhibitors	J. Brem, T. Panduwawala, J.U. Hansen, J. Hewitt, E. Liepins, P. Donets, L. Espina, A.J.M. Farley, K. Shubin, G.G. Campillos, P. Kiuru, S. Shishodia, D. Krahn, R.K. Leśniak, J.S. Adrian, K. Calvopiña, M.-C. Turrientes, M.E. Kavanagh, D. Lubriks, P. Hinchliffe, G.W. Langley, A.F. Aboklaish, A. Eneroth, M. Backlund, A.G. Baran, E.I. Nielsen, M. Speake, J. Kuka, J. Robinson, S. Grinberga, L. Robinson, M.A. McDonough, A.M. Rydzik, T.M. Leissing, J.C. Jimenez-Castellanos, M.B. Avison, S.D. Silva Pinto, A.D. Pannifer, M. Martjuga, E. Widlake, M. Priede, I. Hopkins Navratilova, M. Gniadkowski, A.K. Belfrage, P. Brandt, J. Yli-Kauhaluoma, E. Bacque, M.G.P. Page, F. Björkling, J.M. Tyrrell, J. Spencer, P.A. Lang, P. Baranczewski, R. Cantón, S.P. McElroy, P.S. Jones, F. Baquero, E. Suna, A. Morrison, T.R. Walsh, C.J. Schofield	Nature Chemistry	Chemistry, Multidisciplinary	DA	DA	21,8	20,2	2022	14	1	15	24	DOI: 10.1038/s41557	**67**
2	Rhodanine hydrolysis leads to potent thioenolate mediated metallo-β-lactamase inhibition	J. Brem, S.S. van Berkel, W. Aik, A.M. Rydzik, M.B. Avison, I. Pettinati, K.D. Umland, A. Kawamura, J. Spence, T.D. Claridge, M.A. McDonough, C.J. Schofield	Nature Chemistry	Chemistry, Multidisciplinary	DA		25,3	20,2	2014	6		1084	1090	DOI: 10.1038/nchem	**110**
3	Non-Hydrolytic β-Lactam Antibiotic Fragmentation by L,D-Transpeptidases and Serine β-Lactamase Cysteine Variants	C.T. Lohans, H.T.H. Chan, T.R. Malla, K. Kumar, J.J.A.G. Kamps, D.J.B. McArd, E. van Groesen, M. de Munnik, C.L. Tooke, J. Spencer, R.S. Paton, J. Brem, C.J. Schofield	Angewandte Chemie International Edition	Chemistry, Multidisciplinary			12,2	16,9	2018	58	7	1990	1994	https://doi.org/10.10	**29**
4	A New Mechanism for β-Lactamases: Class D Enzymes Degrade 1β-Methyl Carbapenems via Lactone Formation	C.T. Lohans, E. van Groesen, K. Kumar, C.L. Tooke, J. Spencer, R.S. Paton, J. Brem, C.J. Schofield	Angewandte Chemie International Edition	Chemistry, Multidisciplinary			12,2	16,9	2018	57	5	1282	1285	DOI: 10.1002/anie.20	**28**
5	19F-NMR Reveals the Role of Mobile Loops in Product and Inhibitor Binding by the São Paulo Metallo-β-Lactamase	M.I. Abboud, P. Hinchliffe, J. Brem, R. Macsics, I. Pfeffer, A. Makena, K.-D. Umland, A.M. Rydzik, G.-B. Li, J. Spencer, T.D.W. Claridge, C.J. Schofield	Angewandte Chemie International Edition	Chemistry, Multidisciplinary			12,1	16,9	2017	56	14	3862	3866	DOI: 10.1002/anie.20	**19**
6	Monitoring conformational changes in the NDM-1 metallo-β-lactamase by 19F NMR spectroscopy	A.M. Rydzik,* J. Brem,* S.S. van Berkel, I. Pfeffer, A. Makena, T.D.W. Claridge, C.J. Schofield, C.J.	Angewandte Chemie International Edition	Chemistry, Multidisciplinary	DA		11,2	16,9	2014	53	12	3129	3133	DOI: 10.1002/anie.20	**60**

7	Filamin C dimerisation is regulated by HSPB7	Z. Wang, G. Cao, M.P. Collier, X. Qiu, S. Broadway-Stringer, D. Šaman, J.Z.Y. Ng, N. Sen, A.J. Azad, C. Hooper, J. Zimmermann, M.A. McDonough, J. Brem, P. Rabe, H. Song, T. Reid Alderson, C.J. Schofield, J.R. Bolla, K. Djinovic-Carugo, D.O. Fürst, B. Warscheid, M.T. Degiacomi, T.M. Allison, G.K.A. Hochberg, C.V. Robinson, K. Gehmlich, J.L.P. Benesch	Nature Communications	Chemistry, Multidisciplinary			16,6	16,6	2025	16	1	4090		DOI: 10.1038/s41467	**2**
8	An on-demand, drop-on-drop method for studying enzyme catalysis by serial crystallography	A. Butryn, P.S. Simon, P. Aller, P. Hinchliffe, R.N. Massad, G. Leen, C.L. Tooke, I. Bogacz, In-Sik Kim, A. Bhowmick, A.S. Brewster, N.E. Devenish, J. Brem, J.J.A.G. Kamps, P.A. Lang, P. Rabe, D. Axford, J.H. Beale, B. Davy, A. Ebrahim, J. Orlans, S.L.S. Storm, T. Zhou, S. Owada, R. Tanaka, K. Tono, G. Evans, R.L. Owen, F.A. Houle, N.K. Sauter, C.J. Schofield, J. Spencer, V.K. Yachandra, J. Yano, J.F. Kern, A.M. Orville	Nature Communications	Chemistry, Multidisciplinary			17,7	16,6	2021	12	1	4461		DOI: 10.1038/s41467	**57**
9	Structural basis of metallo-β-lactamase, serine-β-lactamase and penicillin-binding protein inhibition by cyclic boronates	J. Brem, R. Cain, S. Cahill, M. A. McDonough, I. J. Clifton, J.-C. Jiménez-Castellanos, M. B. Avison, J. Spencer, C. W. G. Fishwick, C. J. Schofield	Nature Communications	Chemistry, Multidisciplinary	DA		12,1	16,6	2016	7		12406		DOI: 10.1038/ncomm	**218**
10	The Chemical Biology of Human Metallo-β-Lactamase Fold Proteins	I. Pettinati, J. Brem, S.Y. Lee, P.J. McHugh, C.J. Schofield	Trends in Biochemical Sciences	Chemistry, Multidisciplinary			16,6	16,2	2016	41	4	338	355	DOI: 10.1016/j.tibs.2(	**89**
11	A X-ray free-electron laser studies reveal correlated motion during isopenicillin N synthase catalysis	P. Rabe, J.J.A.G. Kamps, K.D. Sutherlin, J.D.S. Linyard, P. Aller, C.C. Pham, H. Makita, I. Clifton, M.A. McDonough, T.M. Leissing, D. Shutin, P.A. Lang, A. Butryn, J. Brem, S. Gul, F.D. Fuller, In-Sik Kim, M.H, Cheah, T. Fransson , A. Bhowmick, I.D. Young, L. O'Riordan, A.S. Brewster, I. Pettinati, M. Doyle, Y. Joti, S. Owada, K. Tono, A. Batyuk, M.S. Hunter, R. Alonso-Mori, U. Bergmann, R.L. Owen, N.K. Sauter, T.D.W. Claridge, C.V. Robinson, V.K. Yachandra, J. Yano , J.F. Kern, A.M. Orville, C.J. Schofield	Science Advances	Chemistry, Multidisciplinary			14,9	13,6	2021	7	34	eabh0250		DOI: 10.1126/sciadv.a	**39**
12	Mapping the Hydrophobic Substrate Binding Site of Phenylalanine Ammonia Lyase from Petroselinum crispum	E. Z. A. Nagy, S. D. Tork, P. A. Lang, A. Filip, F. D. Irimie, L. Poppe, M. I. Toşa, C. J. Schofield, J. Brem, C. Paizs, L. C. Bencze	ACS Catalysis	Chemistry, Multidisciplinary			12,2	11,3	2019	9	9	8825	8834	https://doi.org/10.10	**39**
13	The Triple Combination of Meropenem, Avibactam, and a Metallo-β-Lactamase Inhibitor Optimizes Antibacterial Coverage Against Different β-Lactamase Producers	Z. Ling, A.J. Macdonald Farley, A. Lankapalli, Y. Zhang, S. Premchand-Branker, K. Cook, A. Baran, C. Gray-Hammerton, C. Orbegozo Rubio, E. Suna, J. Mathias, J. Brem, K. Sands, M. Nieto-Rosado, M. Mykolaivna Trush, N. Naznin Rakhi, W. Martins, Y. Zhou, C.J. Schofield, T. Walsh	Engineering	Chemistry, Multidisciplinary			10,1	10,1	2024	38		124	132	DOI: 10.1016/j.eng.2(	**4**
14	Studies on enmetazobactam clarify mechanisms of widely used β-lactamase inhibitors	P.A. Lang, R. Raj, A. Tumber, C.T. Lohans, P. Rabe, C.V. Robinson, J. Brem, C.J. Schofield	Proceedings of the National Academy of Sciences (PNAS)	Chemistry, Multidisciplinary		DA	11,2	11,2	2022	119	18	e2117310119		DOI: 10.1073/pnas.2	**10**

15	Cell-active small molecule inhibitors validate the SNM1A DNA repair nuclease as a cancer target	M. Bielinski, L.R. Henderson, Y. Yosaatmadja, L.P. Swift, H.T. Baddock, M.J. Bowen, J. Brem, P.S. Jones, S.P. McElroy, A. Morrison, M. Speake, S. van Boeckel, E. van Doornmalen, J. van Groningen, H. van den Hurk, O. Gileadi, J.A. Newman, P.J. McHugh, C.J. Schofield	Chemical Science	Chemistry, Multidisciplinary			7,4	8,4	2024	15	21	8227	8241	DOI: 10.1039/d4sc00	**2**
16	High-throughput screen with the L,D-transpeptidase LdtMt2 of Mycobacterium tuberculosis Reveals Novel Classes of Covalently Reacting Inhibitors	M. Munnik, P.A. Lang, , F.D.D. Anton, M. Cacho, R.H. Bates, J. Brem, B. Rodríguez Miquel, CJ Schofield	Chemical Science	Chemistry, Multidisciplinary			7,7	8,4	2023	14	26	7262	7278	DOI: 10.1039/d2sc06	**6**
17	NMR-filtered virtual screening leads to non-metal chelating metallo-β-lactamase inhibitors	G.-B. Li, M. I. Abboud, J. Brem, H. Someya, C. T. Lohans, S.-Y. Yang, J. Spencer, D. W. Wareham, M. A. McDonough, C. J. Schofield	Chemical Science	Chemistry, Multidisciplinary			9,1	8,4	2017	8	2	928	937	DOI: 10.1039/c6sc04	**62**
18	Studying the active-site loop movement of the São Paolo metallo-β-lactamase-1	J. Brem, W.B. Struwe, A.M. Rydzik, H. Tarhonskaya, I. Pfeffer, E. Flashman, S.S. van Berkel, J. Spencer, T.D.W. Claridge, M.A. McDonough, J.L.P. Benesch, C.J. Schofield	Chemical Science	Chemistry, Multidisciplinary	DA		9,2	8,4	2015	6	2	956	963	DOI: 10.1039/c4sc01	**35**
19	High-Throughput Crystallography Reveals Boron-Containing Inhibitors of a Penicillin-Binding Protein with Di- and Tricovalent Binding Modes	H. Newman, A. Krajnc, D. Bellini, C.J. Eyermann, G.A. Boyle, N.G. Paterson, K.E. McAuley, R. Lesniak, M. Gangar, F.v. Delft, J. Brem, K. Chibale, C.J. Schofield, C.G. Dowson	Journal of Medicinal Chemistry	Chemistry, Multidisciplinary			8	7,3	2021	64	15	11379	11394	DOI: 10.1021/acs.jme	**18**
20	Bicyclic Boronate VNRX-5133 Inhibits Metallo- and Serine-β-Lactamases	A. Krajnc, J. Brem, P. Hinchliffe, K. Calvopiña, T.D. Panduwawal, P.A. Lang, J.J.A.G. Kamps, J.M. Tyrrell, E. Widlake, B.G. Saward, T.R. Walsh, J. Spencer, C.J. Schofield	Journal of Medicinal Chemistry	Chemistry, Multidisciplinary			6	7,3	2019	62	18	8544	8556	DOI: 10.1021/acs.jme	**171**
21	In silico fragment based design identifies subfamily B1 metallo-β-lactamase inhibitors	R. Cain, J. Brem,* D. Zollman, M.A. McDonough, R.M. Johnson, J. Spencer, A. Makena, M.I. Abboud, S. Cahill, S.Y. Lee, P. McHugh, C.J. Schofield, C.W.G. Fishwick	Journal of Medicinal Chemistry	Chemistry, Multidisciplinary	DA		6,7	7,3	2018	61	3	1255	1260	DOI: 10.1021/acs.jme	**38**
22	Assay Platform for Clinically Relevant Metallo-β-lactamases	S.S. van Berkel,* J. Brem,* A.M. Rydzik, R. Salimraj, R. Cain, R., A. Verma, R.J. Owens, C.W. Fishwick,J. Spencer, C.J. Schofield	Journal of Medicinal Chemistry	Chemistry, Multidisciplinary	DA		6,7	7,3	2013	56	17	6945	6953	DOI: 10.1021/jm4007	**106**
23	Will morphing boron-based inhibitors beat the β-lactamases?	A. Krajnc, P.A. Lang, T.D. Panduwawala, J. Brem, C.J. Schofield	Current Opinion in Chemical Biology	Chemistry, Multidisciplinary	DA		9,6	7,8	2019	50		101	110	DOI: 10.1016/j.cbpa.2	**79**
24	Faropenem reacts with serine and metallo-β-lactamases to give multiple products	A. Lucic, P. Hinchliffe, T.R. Malla, C.L. Tooke, J. Brem, K. Calvopiña, C.T. Lohans, P. Rabe, M.A. McDonough, T. Armistead, A.M. Orville, J. Spencer, C.J. Schofield	European Journal of Medicinal Chemistry	Chemistry, Multidisciplinary			7	6	215			113257		DOI: 10.1016/j.ejmec	**17**
25	Biochemical and crystallographic studies of L,D-transpeptidase 2 from Mycobacterium tuberculosis with its natural monomer substrate	M. de Munnik, P.A. Lang, K. Calvopiña, P. Rabe, J. Brem, C.J. Schofield	Communications Biology	Chemistry, Multidisciplinary			5,1	5,9	2024	7	1	1173		DOI: 10.1038/s42003	**1**
26	Crystal Structures of VIM-1 Complexes Explain Active Site Heterogeneity in VIM-Class Metallo-β-Lactamases	R. Salimraj, P. Hinchliffe, M. Kosmopoulou,J.M. Tyrrell, J. Brem, S.S. van Berkel, A. Verma, R.J. Owens, M.A. McDonough, T.R. Walsh, CJ Schofield, J. Spencer	FEBS Journal	Chemistry, Multidisciplinary			4,3	5,4	2019	286	1	169	183	DOI: 10.1111/febs.14	**33**

27	Rh(III)-Catalyzed Directed C-H Carbenoid Coupling Reveals Aromatic Bisphosphonates Inhibiting Metallo- and Serine-β-Lactamases	Z. Chen, Y.-C. Pu, Z.-J. Yu, C.-U. Wu, J. Brem, M.A. McDonough, C.J. Schofield, G.-B. Li, Y. Wu	Organic Chemistry Frontiers	Chemistry, Multidisciplinary			4,9	4,7	2018	5		1288	1292	https://doi.org/10.10	**18**
28	A dual covalent binder for labelling and inhibiting serine and metallo-carbapenemases	C. Chen, Y. Xu, P. Oelschlaeger, J. Brem, L. Liu, D. Wang, H. Sun, K.-W. Yang	Chemical Communications	Chemistry, Multidisciplinary			4,3	4,3	2023	59	60	9227	9230	DOI: 10.1039/d3cc02	**5**
29	Design and enantioselective synthesis of 3-(α-acrylic acid) benzoxaboroles to combat carbapenemase resistance	Y.-C. Xiao, X.-P. Chen, J. Deng, Y.-H. Yan, K.-R. Zhu, G. Li, J.-L. Yu, J. Brem, F. Chen, C.J. Schofield, G.-B. Li	Chemical Communications	Chemistry, Multidisciplinary			6	4,3	2021	57	62	7709	7712	DOI: 10.1039/d1cc03	**19**
30	Targeting the Mycobacterium tuberculosis transpeptidase LdtMt2 with cysteine-reactive inhibitors including ebselen	M. Munnik, C. T. Lohans, P. A. Lang, G. W. Langley, T. R. Malla, A. Tumber, C. J. Schofield, J. Brem	Chemical Communications	Chemistry, Multidisciplinary		DA	5,99	4,3	2019	55	69	10214	10217	DOI: 10.1039/c9cc04	**30**
31	Crystallographic Analyses of Isoquinoline Complexes Reveal a New Mode of Metallo-β-Lactamase Inhibition	G.-B. Li, J. Brem,* R. Lesniak, M. I. Abboud, C. T. Lohans, I. J. Clifton, S.-Y. Yang, J.-C. Jimenez-Castellanos, M. B. Avison, J. Spencer, M. A. McDonough, C. J. Schofield	Chemical Communications	Chemistry, Multidisciplinary	DA		6,29	4,3	2017	53	43	5806	5809	DOI: 10.1039/c7cc02	**26**
32	Cephalosporins inhibit human metallo-β-lactamase fold DNA repair nucleases SNM1A and SNM1B/Apollo	S.Y. Lee, J. Brem, I. Pettinati, T. D. W. Claridge, O. Gileadi, C. J. Schofield, P. J. McHugh	Chemical Communications	Chemistry, Multidisciplinary			6,31	4,3	2016	52	40	6727	6730	DOI: 10.1039/c6cc00	**29**
33	The Interaction of Nitrophenylalanines with Wild Type and Mutant 4-Methylideneimidazole-5-one-less Phenylalanine Ammonia Lyase."	M. I. Toşa, J. Brem, A. Mantu, F. D. Irimie, C. Paizs, J. Rétey	ChemCatChem	Chemistry, Multidisciplinary			5,3	3,9	2013	5	3	779	783	https://doi.org/10.10	**2**
34	Structural Investigations of the Inhibition of Escherichia coli AmpC β-Lactamase by Diazabicyclooctanes	P.A. Lang, T.M. Leissing, M.G.P. Page, C. Schofield J. Brem,	Antimcrobial Agents and Chemotherapy	Chemistry, Multidisciplinary		DA	5,19	4,9	2021	65	2	e02073-20		DOI: 10.1128/AAC.02	**13**
35	Molecular Basis of Class A β-lactamase Inhibition by Relebactam	C. L. Tooke, P. Hinchliffe, P. A. Lang, A. J. Mulholland, J. Brem, C. J. Schofield, J. Spencer	Antimcrobial Agents and Chemotherapy	Chemistry, Multidisciplinary			4,9	4,9	2019	63	10	e00564-19		DOI: 10.1128/AAC.00	**63**
36	New Delhi metallo-β-lactamase 1 catalyses avibactam and aztreonam hydrolysis	C.T. Lohans, J. Brem,* C.J. Schofield	Antimcrobial Agents and Chemotherapy	Chemistry, Multidisciplinary		DA	4,8	4,9	2017	61	12	e01224-17		DOI: 10.1128/AAC.01	**40**
37	Cyclic Boronates Inhibit All Classes of β-Lactamase	S. T. Cahill, R. Cain, D. Y. Wang, C. T. Lohans, D. W. Wareham, H. P. Oswin, J. Mohammed, J. Spencer, C. W. G. Fishwick, M. A. McDonough, C. J. Schofield, J. Brem	Antimcrobial Agents and Chemotherapy	Chemistry, Multidisciplinary		DA	4,8	4,9	2017	61	4	e02260-16		DOI: 10.1128/AAC.02	**104**
38	Structural and Biochemical Characterization of Rm3, a SubClass B3 Metallo-β-Lactamase Identified from a Functional Metagenomic Study	R. Salimraj, L. Zhang, P. Hinchliffe, E. M. H. Wellington, J. Brem, C. J. Schofield, W. H. Gaze, J. Spencer	Antimcrobial Agents and Chemotherapy	Chemistry, Multidisciplinary			4,1	4,9	2016	60	10	5828	5840	DOI: 10.1128/AAC.00	**19**
39	Interaction of Avibactam with Class B Metallo-β-lactamases	M. I. Abboud, C. Damblon, J. Brem, N. Smargiasso, P. Mercuri, B. Gilbert, A. M. Rydzik, T. D. W. Claridge, C. J. Schofield, J.-M. Frère	Antimcrobial Agents and Chemotherapy	Chemistry, Multidisciplinary			4,1	4,9	2016	60	10	5655	5662	DOI: 10.1128/AAC.00	**87**

40	Sideromimic Modification of Lactivicin Dramatically Increases Potency against Extensively Drug-Resistant Stenotrophomonas maltophilia Clinical Isolates	K. Calvopiña, K.-D. Umland, A. M. Rydzik, P. Hinchliffe, J. Brem, J. Spencer, C. J. Schofield, M. B. Avison	Antimcirobial Agents and Chemotherapy	Chemistry, Multidisciplinary			4,1	4,9	2016	60	7	4170	4175	DOI: 10.1128/AAC.00	**16**
41	Comparison of Verona Integron-Borne Metallo-β-lactamase Variants Reveals Differences in Stability and Inhibition Profiles	A. Makena, A.Ö. Düzgün, J. Brem, M.A. McDonough, A.M. Rydzik, M.I. Abboud, A. Saral, A.Ç. Çiçek, C. Sandalli, C.J. Schofield	Antimcirobial Agents and Chemotherapy	Chemistry, Multidisciplinary			4,3	4,9	2015	60	3	1377	1384	DOI: 10.1128/AAC.01	**39**
42	Structural basis of metallo-β-lactamase inhibition by captopril stereoisomers	Brem, J; van Berkel, SS; Zollman, D; Lee, SY ; Gileadi, O ; McHugh, PJ; Walsh, TR ; McDonough, MA ; Schofield, CJ	Antimcirobial Agents and Chemotherapy	Chemistry, Multidisciplinary	DA		4,3	4,9	2015	60	1	142	150	DOI: 10.1128/AAC.01	**139**
43	Bicyclic Boronates as Potent Inhibitors of AmpC, the Class C β-Lactamase from Escherichia coli	P.A. Lang, A. Parkova, T.M. Leissing, K. Calvopiña, R. Cain, A. Krajnc, T.D. Panduwawala, J. Philippe,C.W.G. Fishwick, P. Trapencieris, M.G.P. Page, C.J. Schofield, J. Brem	Biomolecules	Chemistry, Multidisciplinary		DA	4,8	4,8	2020	10	6	899		DOI: 10.3390/biom10	**29**
44	In vitro efficacy of Imipenem-Relebactam and Cefepime-AAI101 against a global collection of ESBL-positive and carbapenemase-producing Enterobacteriaceae	L.Tselepis, G.W. Langley, A.F. Aboklaish, E. Widlake, D.E. Jackson, T.R. Walsh, C.J. Schofield, J. Brem, J.M. Tyrrell	International Journal of Antimicrobial Agents	Chemistry, Multidisciplinary		DA	5,2	4,6	2020	56	1	1E+06		DOI: 10.1016/j.ijantin	**40**
45	Structural Basis of Metallo-β-lactamase Inhibition by N-Sulfamoylpyrrole-2-carboxylates	A.J.M. Farley, Y. Ermolovich, K. Calvopina, P. Rabe, T. Panduwawala, J. Brem, F. Bjorkling, C.J. Schofield	ACS Infectious Diseases	Chemistry, Multidisciplinary			4	4	2021	7	6	1809	1817	DOI: 10.1021/acsinfe	**21**
46	Binding of (5S)-Penicilloic Acid to Penicillin Binding Protein 3	S.S. Berkel, J.E. Nettleship, I.K.H. Leung, J. Brem, H. Choi, D. I. Stuart, T.D.W. Claridge, M.A. McDonough, R.J. Owens, J. Ren, C.J. Schofield	ACS Chemical Biology	Chemistry, Multidisciplinary			5,49	3,8	2013	8	10	2112	2116	DOI: 10.1021/cb4002	**24**
47	Use of ferrous iron by metallo-β-lactamases	S. T. Cahill, H. Tarhonskaya, A. M. Rydzik, E. Flashman, M. A. McDonough, C. J. Schofield, J. Brem	Journal of Inorganic Biochemistry	Chemistry, Multidisciplinary		DA	3,3	3,9	2016	163		185	193	DOI: 10.1016/j.jinorg	**20**
48	13C-Carbamylation as a mechanistic probe for the inhibition of class D β-lactamases by avibactam and halide ions	C.T. Lohans, D.Y. Wang, C. Jorgensen, S.T. Cahill ST, I.J. Clifton, M.A. McDonough, H.P. Oswin, J. Spencer, C. Domene, T.D.W. Claridge, J. Brem,* C.J. Schofield	Organic and Biomolecular Chemistry	Chemistry, Multidisciplinary		DA	3,7	2,7	2017	15	28	6024	6032	DOI: 10.1039/c7ob01	**20**
49	Studies on the inhibition of AmpC and other β-lactamases by cyclic boronates	S.T. Cahill, J.M. Tyrrell, I.H. Navratilova, K. Calvopiña, S.W. Robinson, C.T. Lohans, M.A. McDonough, R. Cain, C.W.G. Fishwick, M.B. Avison, T.R. Walsh, C.J. Schofield, J. Brem	Biochimica et Biophysica Acta (BBA) - General Subjects	Chemistry, Multidisciplinary		DA	3,9	4,1	2019	1863	4	742	748	DOI: 10.1016/j.bbage	**27**
50	Profiling Interactions of Vaborbactam with Metallo-β-Lactamases"	G. W. Langley, R. Cainc, J. M. Tyrrelld, P. Hinchliffe, K. Calvopiña, C. Tooke, E. Widlake, C. G. Dowson, J. Spencer, T. R. Walsh, C. J. Schofield, J. Brem	Bioorganic & Medicinal Chemistry Letters	Chemistry, Multidisciplinary		DA	2,4	2,2	2019	29	15	1981	1984	DOI: 10.1016/j.bmcl.2	**36**
	TOTAL			**405,47**	**190,37**	**77,08**	**405,47**	**412,4**								**2205**

TABEL CENTRALIZATOR

Categorie Profesor / CSI / Habilitare	N_{max}	FIC	FIC_D	FIC_{AP}	FIC_{AC}	h index
CRITERII CNADTCU REALIZATE (WoS)	50	405,47 (412,4)	405,47 (412,4)	190,37	77,08	29
Criterii minimale *CNATDCU-CHIMIE*	*50*	*100*	*70*	*50*	*25*	*13*
Grad de indeplinire (%)		405	405	381	308	223

Director SDC,
Prof. dr. Tiberiu FRENȚIU

Director CSUD,
Prof. dr. Anca-Mirela ANDREICA